GenCore version 5.1.4_p5_4578

OM protein - protein search, using sw model

Run on: March 24, 2003, 15:50:39 ; Search time 18.1212 Seconds
(without alignments)
422.155 Million cell updates/sec

Title: US-09-988-971-2_COPY_2_261
Perfect score: 1346
Sequence: 1 GSLPSRRKSLPSPSLSSSVQ.....RESLSFYISLNDEAVSLDDA 260

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	374.5	27.8	512	4	US-08-426-509A-16	Sequence 16, Appl
2	374.5	27.8	512	5	PCT-US95-05008-16	Sequence 16, Appl
3	364.5	27.1	505	4	US-08-426-509A-17	Sequence 17, Appl
4	364.5	27.1	505	5	PCT-US95-05008-17	Sequence 17, Appl
5	345.5	25.7	499	4	US-08-426-509A-19	Sequence 19, Appl
6	345.5	25.7	499	5	PCT-US95-05008-19	Sequence 19, Appl
7	344	25.6	509	3	US-09-039-555B-17	Sequence 17, Appl
8	344	25.6	509	4	US-08-426-509A-18	Sequence 18, Appl
9	344	25.6	509	4	US-09-457-040B-8	Sequence 8, Appli
10	344	25.6	509	5	PCT-US95-05008-18	Sequence 18, Appl
11	319.5	23.7	537	4	US-08-426-509A-11	Sequence 11, Appl
12	319.5	23.7	537	5	PCT-US95-05008-11	Sequence 11, Appl
13	319.5	23.7	543	4	US-08-426-509A-14	Sequence 14, Appl
14	319.5	23.7	543	5	PCT-US95-05008-14	Sequence 14, Appl
15	316.5	23.5	529	4	US-08-426-509A-15	Sequence 15, Appl
16	316.5	23.5	529	5	PCT-US95-05008-15	Sequence 15, Appl
17	315	23.4	496	2	US-09-006-675-2	Sequence 2, Appli
18	315	23.4	496	4	US-09-228-603A-2	Sequence 2, Appli
19	305	22.7	536	4	US-08-426-509A-12	Sequence 12, Appl
20	305	22.7	536	5	PCT-US95-05008-12	Sequence 12, Appl
21	290.5	21.6	533	1	US-07-820-011A-2	Sequence 2, Appli
22	290.5	21.6	533	5	PCT-US93-00445-2	Sequence 2, Appli
23	287.5	21.4	532	1	US-08-594-447-1	Sequence 1, Appli
24	287.5	21.4	532	2	US-08-665-647-1	Sequence 1, Appli
25	280.5	20.8	536	1	US-07-820-011A-4	Sequence 4, Appli
26	280.5	20.8	536	4	US-08-426-509A-13	Sequence 13, Appl
27	280.5	20.8	536	5	PCT-US93-00445-4	Sequence 4, Appli
28	280.5	20.8	536	5	PCT-US95-05008-13	Sequence 13, Appl
29	278	20.7	98	2	US-08-479-078-7	Sequence 7, Appli
30	272	20.2	98	2	US-08-479-078-6	Sequence 6, Appli
31	266	19.8	108	5	PCT-US94-01840-6	Sequence 6, Appli
32	264	19.6	101	2	US-08-574-959A-5	Sequence 5, Appli
33	264	19.6	101	4	US-09-357-014-5	Sequence 5, Appli
34	262	19.5	98	2	US-08-479-078-5	Sequence 5, Appli
35	262	19.5	98	4	US-08-975-040-22	Sequence 22, Appl
36	262	19.5	224	1	US-08-707-793A-6	Sequence 6, Appli
37	262	19.5	224	1	US-08-707-792A-6	Sequence 6, Appli
38	261	19.4	98	1	US-08-308-086-4	Sequence 4, Appli
39	261	19.4	99	1	US-08-202-389-38	Sequence 38, Appl
40	258.5	19.2	98	1	US-08-202-389-39	Sequence 39, Appl
41	258.5	19.2	102	2	US-08-820-754-24	Sequence 24, Appl
42	258.5	19.2	102	3	US-08-956-652-24	Sequence 24, Appl
43	258.5	19.2	102	3	US-08-956-869-24	Sequence 24, Appl
44	258.5	19.2	102	3	US-08-948-547-24	Sequence 24, Appl
45	254.5	18.9	97	2	US-08-479-078-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-08-426-509A-16
; Sequence 16, Application US/08426509A
; Patent No. 6326469
; GENERAL INFORMATION:
; APPLICANT: Ullrich,, Axel
; APPLICANT: Gishizsky,, Mikhail
; APPLICANT: Sures,, Irman G.
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
; TITLE OF INVENTION: TYROSINE KINASES
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York,
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/426,509A
; FILING DATE: 21-APR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/232,545
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-0074-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 512 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: No. 6326469e
US-08-426-509A-16

Query Match 27.8%; Score 374.5; DB 4; Length 512;
Best Local Similarity 40.3%; Pred. No. 4.1e-32;
Matches 81; Conservative 36; Mismatches 75; Indels 9; Gaps 3;

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Db      38 SNKQQRPVPE-SQLLPGQRFQTKDPEEQGDIVVALYPYDGIHPDDLSFKKGEKMKVLEEH 96

Qy      65 GDWWTVLSEVSGREYNIPSVHVAKV----SHGWLYEGLSREKAEELLLLPGNPGGAFLIR 120
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Db      97 GEWWKAKSLLTKKEGFIPSNYVAKLNTLETEEWFFKDITRKDAERQLLAPGNSAGAFLIR 156

Qy     121 ESQTRRGSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELAD 180
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Db     157 ESETLKGSFSLSVRDFDPVHGDVIKHYKIRSLDNGGYYISPRITFPCISDMIKHYQKQAD 216

Qy     181 DICCLLKEPCVLQRAGPLPGK 201
           :|  |:: |:     | | |
Db     217 GLCRRLEKACI----SPKPQK 233


RESULT 2
PCT-US95-05008-16
; Sequence 16, Application PC/TUS9505008
;  GENERAL INFORMATION:
;    APPLICANT:  Sugen, Inc.
;    APPLICANT:  515 Galveston Drive
;    APPLICANT:  Redwood City, California 94063-4720
;    APPLICANT:  United States of America
;    APPLICANT:  Wissenschaften E.V.
;    APPLICANT:  Hofgarten Str. 2
;    APPLICANT:  Munchen 80539
;    APPLICANT:  Germany
;    TITLE OF INVENTION:  Novel Megakaryocytic Protein Tyrosine
;    TITLE OF INVENTION:  Kinases
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/05008
;      FILING DATE:  24-APR-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/232,545
;      FILING DATE:  22-APR-1994
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A.
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7683-074
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212)869-9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  16:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  512 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
PCT-US95-05008-16

  Query Match           27.8%;  Score 374.5;  DB 5;  Length 512;
  Best Local Similarity  40.3%;  Pred. No. 4.1e-32;
  Matches   81;  Conservative   36;  Mismatches   75;  Indels    9;  Gaps    3;
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Qy       5 SRRKSLPSPSLSSSVQGQGPVTMEAERSKATAVALGSFPAGGPAELSLRLGEPLTIVSED 64
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Db      38 SNKQQRPVPE-SQLLPGQRFQTKDPEEQGDIVVALYPYDGIHPDDLSFKKGEKMKVLEEH 96

Qy      65 GDWWTVLSEVSGREYNIPSVHVAKV----SHGWLYEGLSREKAEELLLLPGNPGGAFLIR 120
           |:||   | :: :|  ||| :|||:    :  | :: ::|: ||  || ||| ||||||
Db      97 GEWWKAKSLLTKKEGFIPSNYVAKLNTLETEEWFFKDITRKDAERQLLAPGNSAGAFLIR 156

Qy     121 ESQTRRGSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELAD 180
           ||:| :||:|||||   |   | |:||:|  ||||  |||||:||| :  :: || : ||
Db     157 ESETLKGSFSLSVRDFDPVHGDVIKHYKIRSLDNGGYYISPRITFPCISDMIKHYQKQAD 216

Qy     181 DICCLLKEPCVLQRAGPLPGK 201
           :|  |:: |:     | | |
Db     217 GLCRRLEKACI----SPKPQK 233


RESULT 3
US-08-426-509A-17
; Sequence 17, Application US/08426509A
; Patent No. 6326469
;  GENERAL INFORMATION:
;    APPLICANT:  Ullrich,, Axel
;    APPLICANT:  Gishizsky,, Mikhail
;    APPLICANT:  Sures,, Irman G.
;    TITLE OF INVENTION:  NOVEL MEGAKARYOCYTIC PROTEIN
;    TITLE OF INVENTION:  TYROSINE KINASES
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York,
;      STATE:  NY
;      COUNTRY:  USA
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/426,509A
;      FILING DATE:  21-APR-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/232,545
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7683-0074-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-790-9090
;      TELEFAX:  212-869-9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  17:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  505 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
US-08-426-509A-17

  Query Match           27.1%;  Score 364.5;  DB 4;  Length 505;
  Best Local Similarity  42.2%;  Pred. No. 4.9e-31;
  Matches   78;  Conservative   31;  Mismatches   69;  Indels    7;  Gaps    2;

Qy      11 PSPSLSSSVQGQGPVTMEAERSKATAVALGSFPAGGPAELSLRLGEPLTIVSEDGDWWTV 70
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Db      40 PGPNSHNS---NTPGIREAGSEDIIVVALYDYEAIHHEDLSFQKGDQMVVLEESGEWWKA 96

Qy      71 LSEVSGREYNIPSVHVAKV----SHGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRR 126
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Qy    127 GSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLL 186
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Db    157 GSYSLSVRDYDPRQGDTVKHYKIRTLDNGGFYISPRSTFSTLQELVDHYKKGNDGLCQKL 216

Qy    187 KEPCV 191
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Db    217 SVPCM 221


RESULT 4
PCT-US95-05008-17
; Sequence 17, Application PC/TUS9505008
;  GENERAL INFORMATION:
;    APPLICANT:  Sugen, Inc.
;    APPLICANT:  515 Galveston Drive
;    APPLICANT:  Redwood City, California 94063-4720
;    APPLICANT:  United States of America
;    APPLICANT:  Wissenschaften E.V.
;    APPLICANT:  Hofgarten Str. 2
;    APPLICANT:  Munchen 80539
;    APPLICANT:  Germany
;    TITLE OF INVENTION:  Novel Megakaryocytic Protein Tyrosine
;    TITLE OF INVENTION:  Kinases
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/05008
;      FILING DATE:  24-APR-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/232,545
;      FILING DATE:  22-APR-1994
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A.
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7683-074
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212)869-9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  17:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  505 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
PCT-US95-05008-17

  Query Match           27.1%;  Score 364.5;  DB 5;  Length 505;
  Best Local Similarity   42.2%;  Pred. No. 4.9e-31;
  Matches   78;  Conservative   31;  Mismatches   69;  Indels    7;  Gaps    2;

Qy      11 PSPSLSSSVQGQGPVTMEAERSKATAVALGSFPAGGPAELSLRLGEPLTIVSEDGDWWTV 70
           | |:  :|    |  ||       |||  : |    :|| : |: : :: | |:||
Db      40 PGPNSHNS---NTPGIREAGSEDIIVVALYDYEAIHHEDLSFQKGDQMVVLEESGEWWKA 96

Qy      71 LSEVSGREYNIPSVHVAKV----SHGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRR 126
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          |  : :|  ||| :||:|    :  | ::|:||: ||  || |||  |:|:||:|:| :
Db     97 RSLATRKEGYIPSNYVARVDSLETEEWFFKGISRKDAERQLLAPGNMLGSFMIRDSETTK 156

Qy    127 GSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLL 186
          ||||||||   |   | ::||:|  ||||  ||||| || :|| ||||| :  | :|  |
Db    157 GSYSLSVRDYDPRQGDTVKHYKIRTLDNGGFYISPRSTFSTLQELVDHYKKGNDGLCQKL 216

Qy    187 KEPCV 191
            ||:
Db    217 SVPCM 221


RESULT 5
US-08-426-509A-19
; Sequence 19, Application US/08426509A
; Patent No. 6326469
;  GENERAL INFORMATION:
;    APPLICANT:  Ullrich,, Axel
;    APPLICANT:  Gishizsky,, Mikhail
;    APPLICANT:  Sures,, Irman G.
;    TITLE OF INVENTION:  NOVEL MEGAKARYOCYTIC PROTEIN
;    TITLE OF INVENTION:  TYROSINE KINASES
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York,
;      STATE:  NY
;      COUNTRY:  USA
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/426,509A
;      FILING DATE:  21-APR-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/232,545
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7683-0074-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-790-9090
;      TELEFAX:  212-869-9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  19:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  499 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  No. 6326469e
US-08-426-509A-19

  Query Match           25.7%;  Score 345.5;  DB 4;  Length 499;
  Best Local Similarity   40.5%;  Pred. No. 5.6e-29;
  Matches   75;  Conservative   29;  Mismatches   64;  Indels   17;  Gaps    3;

Qy      11 PSPSLSSSVQGQGPVTMEAERSKATAVALGSFPAGGPAELSLRLGEPLTIVSEDGDWWTV 70
           |||:           : :  :   |||  : |    :| :  || | ::   ||||
Db      44 PSPN------------QDPDEEERFVVALFDYAAVNDRDLQVLKGEKLQVLRSTGDWWLA 91

Qy      71 LSEVSGREYNIPSVHVAKVS----HGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRR 126
           | |:|||  :||  || |       | :  :||: ||  || | |  |:||||||:: :
Db      92 RSLVTGREGYVPSNFVAPVETLEVEKWFFRTISRKDAERQLLAPMNKAGSFLIRESESNK 151

Qy     127 GSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLL 186
           |::||||:       : ::||:|  ||||  |||||:|||:|||||  |||:  | :|  |
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Db    152 GAFSLSVK-DITTQGEVVKHYKIRSLDNGGYYISPRITFPTLQALVQHYSKKGDGLCQKL 210

Qy    187 KEPCV 191
Db    211 TLPCV 215
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RESULT 6
PCT-US95-05008-19
; Sequence 19, Application PC/TUS9505008
; GENERAL INFORMATION:
; APPLICANT: Sugen, Inc.
; APPLICANT: 515 Galveston Drive
; APPLICANT: Redwood City, California 94063-4720
; APPLICANT: United States of America
; APPLICANT: Wissenschaften E.V.
; APPLICANT: Hofgarten Str. 2
; APPLICANT: Munchen 80539
; APPLICANT: Germany
; TITLE OF INVENTION: Novel Megakaryocytic Protein Tyrosine
; TITLE OF INVENTION: Kinases
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/05008
; FILING DATE: 24-APR-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/232,545
; FILING DATE: 22-APR-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-074
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
PCT-US95-05008-19

Query Match 25.7%; Score 345.5; DB 5; Length 499;
Best Local Similarity 40.5%; Pred. No. 5.6e-29;
Matches 75; Conservative 29; Mismatches 64; Indels 17; Gaps 3;

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Qy     11 PSPSLSSSVQGQGPVTMEAERSKATAVALGSFPAGGPAELSLRLGEPLTIVSEDGDWWTV 70
Db     44 PSPN-----------QDPDEEERFVVALFDYAAVNDRDLQVLKGEKLQVLRSTGDWWLA 91

Qy     71 LSEVSGREYNIPSVHVAKVS----HGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRR 126
Db     92 RSLVTGREGYVPSNFVAPVETLEVEKWFFRTISRKDAERQLLAPMNKAGSFLIRESESNK 151

Qy    127 GSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLL 186
Db    152 GAFSLSVK-DITTQGEVVKHYKIRSLDNGGYYISPRITFPTLQALVQHYSKKGDGLCQKL 210

Qy    187 KEPCV 191
Db    211 TLPCV 215
```

RESULT 7
US-09-039-555B-17
; Sequence 17, Application US/09039555B
; Patent No. 6033856
; GENERAL INFORMATION:
; APPLICANT: Koerner, Kathrin
; APPLICANT: Mueller, Rolf
; APPLICANT: Sadlacek, Hans-Harald
; TITLE OF INVENTION: PROMOTER OF THE CDC25B GENE, ITS
; TITLE OF INVENTION: PREPARATION AND USE
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/039,555B
; FILING DATE: 16-MAR-1998
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE 19710643.9
; FILING DATE: 14-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Bent, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 016779/0131
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 509 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-039-555B-17

Query Match 25.6%; Score 344; DB 3; Length 509;
Best Local Similarity 41.1%; Pred. No. 8.5e-29;
Matches 74; Conservative 26; Mismatches 70; Indels 10; Gaps 2;

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Qy     25 VTMEAERSKAT------AVALGSFPAGGPAELSLRLGEPLTIVSEDGDWWTVLSEVSGRE 78
Db     49 VTYEGSNPPASPLQDNLVIALHSYEPSHDGDLGFEKGEQLRILEQSGEWWKAQSLTTGQE 108

Qy     79 YNIPSVHVAKVS----HGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRRGSYSLSVR 134
Db    109 GFIPFNFVAKANSLEPEPWFFKNLSRKDAERQLLAPGNTHGSFLIRESESTAGSFSLSVR 168

Qy    135 LSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLLKEPCVLQR 194
Db    169 DFDQNQGEVVKHYKIRNLDNGGFYISPRITFPGLHELVRHYTNASDGLCTRLSRPCQTQK 228
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RESULT 8
US-08-426-509A-18

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; Sequence 18, Application US/08426509A
; Patent No. 6326469
; GENERAL INFORMATION:
;   APPLICANT:  Ullrich,, Axel
;   APPLICANT:  Gishizsky,, Mikhail
;   APPLICANT:  Sures,, Irman G.
;   TITLE OF INVENTION:  NOVEL MEGAKARYOCYTIC PROTEIN
;   TITLE OF INVENTION:  TYROSINE KINASES
;   NUMBER OF SEQUENCES:  21
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  Pennie & Edmonds
;     STREET:  1155 Avenue of the Americas
;     CITY:  New York,
;     STATE:  NY
;     COUNTRY:  USA
;     ZIP:  10036-2711
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Diskette
;     COMPUTER:  IBM Compatible
;     OPERATING SYSTEM:  DOS
;     SOFTWARE:  FastSEQ Version 2.0
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/08/426,509A
;     FILING DATE:  21-APR-1995
;     CLASSIFICATION:  435
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:  08/232,545
;     FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Coruzzi, Laura A
;     REGISTRATION NUMBER:  30,742
;     REFERENCE/DOCKET NUMBER:  7683-0074-999
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  212-790-9090
;     TELEFAX:  212-869-9741
;     TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  18:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  509 amino acids
;     TYPE:  amino acid
;     STRANDEDNESS:  unknown
;     TOPOLOGY:  unknown
US-08-426-509A-18

  Query Match             25.6%;  Score 344;  DB 4;  Length 509;
  Best Local Similarity   41.1%;  Pred. No. 8.5e-29;
  Matches   74;  Conservative   26;  Mismatches   70;  Indels   10;  Gaps    2;

Qy      25 VTMEAERSKAT------AVALGSFPAGGPAELSLRLGEPLTIVSEDGDWWTVLSEVSGRE 78
           || |     |:       :|| |:      :|    || | |: : |:||   |  :|:|
Db      49 VTYEGSNPPASPLQDNLVIALHSYEPSHDGDLGFEKGEQLRILEQSGEWWKAQSLTTGQE 108

Qy      79 YNIPSVHVAKVS----HGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRRGSYSLSVR 134
             ||   ||| :      | :: |||: ||  || |||  |:||||||::  ||:|||||
Db     109 GFIPFNFVAKANSLEPEPWFFKNLSRKDAERQLLAPGNTHGSFLIRESESTAGSFSLSVR 168

Qy     135 LSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLLKEPCVLQR 194
                : ::||:|  |||| |||||:||| |  || ||:  :| :|  |  ||  |:
Db     169 DFDQNQGEVVKHYKIRNLDNGGFYISPRITFPGLHELVRHYTNASDGLCTRLSRPCQTQK 228


RESULT 9
US-09-457-040B-8
; Sequence 8, Application US/09457040B
; Patent No. 6387641
; GENERAL INFORMATION:
;  APPLICANT: Vertex Pharmaceuticals Incorporated
;  APPLICANT:  Bellon, Steve
;  TITLE OF INVENTION: Crystallized P38 Complexes
;  FILE REFERENCE: VPI/98-14
;  CURRENT APPLICATION NUMBER: US/09/457,040B
;  CURRENT FILING DATE:  1999-12-08
;  NUMBER OF SEQ ID NOS: 41
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
;   LENGTH: 509
;   TYPE: PRT
;   ORGANISM: Human
US-09-457-040B-8

  Query Match             25.6%;  Score 344;  DB 4;  Length 509;
  Best Local Similarity   41.1%;  Pred. No. 8.5e-29;
  Matches   74;  Conservative   26;  Mismatches   70;  Indels   10;  Gaps    2;

Qy      25 VTMEAERSKAT------AVALGSFPAGGPAELSLRLGEPLTIVSEDGDWWTVLSEVSGRE 78
           || |     |:       :|| |:      :|    || | |: : |:||   |  :|:|
Db      49 VTYEGSNPPASPLQDNLVIALHSYEPSHDGDLGFEKGEQLRILEQSGEWWKAQSLTTGQE 108

Qy      79 YNIPSVHVAKVS----HGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRRGSYSLSVR 134
             ||   ||| :      | :: |||: ||  || |||  |:||||||::  ||:|||||
Db     109 GFIPFNFVAKANSLEPEPWFFKNLSRKDAERQLLAPGNTHGSFLIRESESTAGSFSLSVR 168

Qy     135 LSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLLKEPCVLQR 194
                : ::||:|  |||| |||||:||| |  || ||:  :| :|  |  ||  |:
Db     169 DFDQNQGEVVKHYKIRNLDNGGFYISPRITFPGLHELVRHYTNASDGLCTRLSRPCQTQK 228


RESULT 10
PCT-US95-05008-18
; Sequence 18, Application PC/TUS9505008
;  GENERAL INFORMATION:
;    APPLICANT:  Sugen, Inc.
;    APPLICANT:  515 Galveston Drive
;    APPLICANT:  Redwood City, California 94063-4720
;    APPLICANT:  United States of America
;    APPLICANT:  Wissenschaften E.V.
;    APPLICANT:  Hofgarten Str. 2
;    APPLICANT:  Munchen 80539
;    APPLICANT:  Germany
;    TITLE OF INVENTION:  Novel Megakaryocytic Protein Tyrosine
;    TITLE OF INVENTION:  Kinases
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/05008
;      FILING DATE:  24-APR-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/232,545
;      FILING DATE:  22-APR-1994
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A.
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7683-074
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212)869-9741
;      TELEX:  66141 PENNIE
;   INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  509 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
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;    MOLECULE TYPE:  protein
PCT-US95-05008-18

  Query Match           25.6%;  Score 344;  DB 5;  Length 509;
  Best Local Similarity   41.1%;  Pred. No. 8.5e-29;
  Matches   74;  Conservative   26;  Mismatches   70;  Indels   10;  Gaps    2;

Qy      25 VTMEAERSKAT------AVALGSFPAGGPAELSLRLGEPLTIVSEDGDWWTVLSEVSGRE 78
           || |      |:       :|| |:      :|    || | |: : |:||   |  :|:|
Db      49 VTYEGSNPPASPLQDNLVIALHSYEPSHDGDLGFEKGEQLRILEQSGEWWKAQSLTTGQE 108

Qy      79 YNIPSVHVAKVS----HGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRRGSYSLSVR 134
             ||   ||| :      | :: |||: ||  || |||  |:||||||::  ||:|||||
Db     109 GFIPFNFVAKANSLEPEPWFFKNLSRKDAERQLLAPGNTHGSFLIRESESTAGSFSLSVR 168

Qy     135 LSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLLKEPCVLQR 194
                 : ::||:|  ||||  |||||:||| |  || ||:  :| :|  |  ||  |:
Db     169 DFDQNQGEVVKHYKIRNLDNGGFYISPRITFPGLHELVRHYTNASDGLCTRLSRPCQTQK 228


RESULT 11
US-08-426-509A-11
; Sequence 11, Application US/08426509A
; Patent No. 6326469
;  GENERAL INFORMATION:
;    APPLICANT:  Ullrich,, Axel
;    APPLICANT:  Gishizsky,, Mikhail
;    APPLICANT:  Sures,, Irman G.
;    TITLE OF INVENTION:  NOVEL MEGAKARYOCYTIC PROTEIN
;    TITLE OF INVENTION:  TYROSINE KINASES
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York,
;      STATE:  NY
;      COUNTRY:  USA
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/426,509A
;      FILING DATE:  21-APR-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/232,545
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7683-0074-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-790-9090
;      TELEFAX:  212-869-9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  537 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  No. 6326469e
US-08-426-509A-11

  Query Match           23.7%;  Score 319.5;  DB 4;  Length 537;
  Best Local Similarity   38.8%;  Pred. No. 4.3e-26;
  Matches   78;  Conservative   24;  Mismatches   80;  Indels   19;  Gaps    3;

Qy       9 SLPSPSLSSSVQGQGPVTMEAERSKATA-------------VALGSFPAGGPAELSLRL 54
           .|:|: :   :  |||       | :               |||  : |    :||

Db      46 SIPNYNNFHAAGGQGLTVFGGVNSSSHTGTLRTRGGTGVTLFVALYDYEARTEDDLSFHK 105

Qy      55 GEPLTIV-SEDGDWWTVLSEVSGREYNIPSVHVAKV----SHGWLYEGLSREKAEELLLL 109
           ||   |: | :||||    |  :|    ||| :|| |     :  | :  | |: ||  ||
Db     106 GEKFQILNSSEGDWWEARSLTTGETGYIPSNYVAPVDSIQAEEWYFGKLGRKDAERQLLS 165

Qy     110 PGNPGGAFLIRESQTRRGSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQ 169
             ||| | ||||||:| :|:||||:|       | ::||:|  ||||  ||: |  | :||
Db     166 FGNPRGTFLIRESETTKGAYSLSIRDWDDMKGDHVKHYKIRKLDNGGYYITTRAQFETLQ 225

Qy     170 ALVDHYSELADDICCLLKEPC 190
             || ||||  |  :|| |  ||
Db     226 QLVQHYSERAAGLCCRLVVPC 246


RESULT 12
PCT-US95-05008-11
; Sequence 11, Application PC/TUS9505008
;  GENERAL INFORMATION:
;    APPLICANT:  Sugen, Inc.
;    APPLICANT:  515 Galveston Drive
;    APPLICANT:  Redwood City, California 94063-4720
;    APPLICANT:  United States of America
;    APPLICANT:  Wissenschaften E.V.
;    APPLICANT:  Hofgarten Str. 2
;    APPLICANT:  Munchen 80539
;    APPLICANT:  Germany
;    TITLE OF INVENTION:  Novel Megakaryocytic Protein Tyrosine
;    TITLE OF INVENTION:  Kinases
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/05008
;      FILING DATE:  24-APR-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/232,545
;      FILING DATE:  22-APR-1994
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A.
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  76B3-074
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212)869-9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  537 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
PCT-US95-05008-11

  Query Match           23.7%;  Score 319.5;  DB 5;  Length 537;
  Best Local Similarity   38.8%;  Pred. No. 4.3e-26;
  Matches   78;  Conservative   24;  Mismatches   80;  Indels   19;  Gaps    3;

Qy       9 SLPSPSLSSSVQGQGPVTMEAERSKATA-------------VALGSFPAGGPAELSLRL 54
           |:|: :   :  |||       | :               |||  : |    :||
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Db     46 SIPNYNNPHAAGGQGLTVFGGVNSSSHTGTLRTRGGTGVTLFVALYDYEARTEDDLSFHK 105

Qy     55 GEPLTIV-SEDGDWWTVLSEVSGREYNIPSVHVAKV----SHGWLYEGLSREKAEELLLL 109
          ||   |: | :||||    |  :|    ||| :|| |    :  | :  | |: ||  ||
Db    106 GEKFQILNSSEGDWWEARSLTTGETGYIPSNYVAPVDSIQAEEWYFGKLGRKDAERQLLS 165

Qy    110 PGNPGGAFLIRESQTRRGSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQ 169
          ||| | ||||||:| :|:||||:|       | ::||:|  ||||  ||: |  | :||
Db    166 PGNPRGTFLIRESETTKGAYSLSIRDWDDMKGDHVKHYKIRKLDNGGYYITTRAQFETLQ 225

Qy    170 ALVDHYSELADDICCLLKEPC 190
          || |||| |  :|| |  ||
Db    226 QLVQHYSERAAGLCCRLVVPC 246


RESULT 13
US-08-426-509A-14
; Sequence 14, Application US/08426509A
; Patent No. 6326469
;  GENERAL INFORMATION:
;    APPLICANT:  Ullrich,, Axel
;    APPLICANT:  Gishizsky,, Mikhail
;    APPLICANT:  Sures,, Irman G.
;    TITLE OF INVENTION:  NOVEL MEGAKARYOCYTIC PROTEIN
;    TITLE OF INVENTION:  TYROSINE KINASES
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York,
;      STATE:  NY
;      COUNTRY:  USA
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/426,509A
;      FILING DATE:  21-APR-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/232,545
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7683-0074-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-790-9090
;      TELEFAX:  212-869-9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  543 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  No. 6326469e
US-08-426-509A-14

  Query Match             23.7%;  Score 319.5;  DB 4;  Length 543;
  Best Local Similarity   29.3%;  Pred. No. 4.3e-26;
  Matches   93;  Conservative   45;  Mismatches  112;  Indels   67;  Gaps    9;

Qy      1 GSLPSRRKSLPSPSLSSSV----------QGQGPVTMEAERSKATAVALGSFPAG---- 45
          |: |:     || |   :             |   ||      | : :|   |:|||
Db     33 GAEPTTVSPCPSSSAKGTAVNPSSLSMTPFGGSSGVTPFGGASSSFSVVPSSYPAGLTGG 92

Qy     46 ------------GPAELSLRLGEPLTIVSE-DGDWWTVLSEVSGREYNIPSVHVAKV-- 89
                       :|| : ||   |::  :||||   |  :|:   ||| :||
Db     93 VTIFVALYDYEARTTEDLSFKKGERFQIINNTEGDWWEARSIATGKNGYIPSNYVAPADS 152

Qy     90 --SHGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRRGSYSLSVRLSRPASWDRIR-- 145
            :  | :  : |: || ||| |||  | ||:|||:| :|:||||:|      || ||
Db    153 IQAEEWYFGKMGRKDAERLLLNPGNQRGIFLVRESETTKGAYSLSIR-----DWDEIRGD 207

Qy    146 ---HYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLLKEPC---------VLQ 193
             ||:|  ||||  ||: |  | :|| || ||:| || :|  |   |          : :
Db    208 NVKHYKIRKLDNGGYYITTRAQFDTLQKLVKHYTEHADGLCHKLTTVCPTVKPQTQGLAK 267

Qy    194 RAGPLPGKDIPLPVTVQR-------------TPLNWKELDSSLLFSEAATGEESLLSEG 239
          |  :| : : | | : :               | :  | |    :  ||   |  :: :
Db    268 DAWEIPRESLRLEVKLGQGCFGEVWMGTWNGTTKVAIKTLKPGTMMPEAFLQEAQIMKKL 327

Qy    240 LRESL-SFYISLNDEAV 255
            : |   |  :::| :
Db    328 RHDKLVPLYAVVSEEPI 344


RESULT 14
PCT-US95-05008-14
; Sequence 14, Application PC/TUS9505008
;  GENERAL INFORMATION:
;    APPLICANT:  Sugen, Inc.
;    APPLICANT:  515 Galveston Drive
;    APPLICANT:  Redwood City, California 94063-4720
;    APPLICANT:  United States of America
;    APPLICANT:  Wissenschaften E.V.
;    APPLICANT:  Hofgarten Str. 2
;    APPLICANT:  Munchen 80539
;    APPLICANT:  Germany
;    TITLE OF INVENTION:  Novel Megakaryocytic Protein Tyrosine
;    TITLE OF INVENTION:  Kinases
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/05008
;      FILING DATE:  24-APR-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/232,545
;      FILING DATE:  22-APR-1994
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A.
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7683-074
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212)869-9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  543 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
PCT-US95-05008-14

  Query Match             23.7%;  Score 319.5;  DB 5;  Length 543;
  Best Local Similarity   29.3%;  Pred. No. 4.3e-26;
  Matches   93;  Conservative   45;  Mismatches  112;  Indels   67;  Gaps    9;
```

```
Qy       1 GSLPSRRKSLPSPSLSSSV----------QGQGPVTMEAERSKATAVALGSFPAG---- 45
           |: |:     || | :           |    ||     | : :|   |:||
Db      33 GAEPTTVSPCPSSSAKGTAVNFSSLSMTPFGGSSGVTPFGGASSSFSVVPSSYPAGLTGG 92

Qy      46 ------------GPAELSLRLGEPLTIVSE-DGDWWTVLSEVSGREYNIPSVHVAKV-- 89
                       :|| : ||   |::  :||||   |  :|:   ||| :||
Db      93 VTIFVALYDYEARTTEDLSFKKGERFQIINNTEGDWWEARSIATGKNGYIPSNYVAPADS 152

Qy      90 --SHGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRRGSYSLSVRLSRPASWDRIR-- 145
             :  | :  : |: || ||| |||  | ||:|||:| :|:||||:|      || ||
Db     153 IQAEEWYFGKMGRKDAERLLLNPGNQRGIFLVRESETTKGAYSLSIR-----DWDEIRGD 207

Qy     146 ---HYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLLKEPC---------VLQ 193
             ||:|  ||||  ||: |  | :|| || ||:| || :|  |   |          : :
Db     208 NVKHYKIRKLDNGGYYITTRAQFDTLQKLVKHYTEHADGLCHKLTTVCPTVKPQTQGLAK 267

Qy     194 RAGPLPGKDIPLPVTVQR--------------TPLNWKELDSSLLFSEAATGEESLLSEG 239
           |  :| : : | | : :               | :  | |    :  ||   |  :: :
Db     268 DAWEIPRESLRLEVKLGQGCFGEVWMGTWNGTTKVAIKTLKPGTMMPEAFLQEAQIMKKL 327

Qy     240 LRESL-SFYISLNDEAV 255
             : |   |  :::| :
Db     328 RHDKLVPLYAVVSEEPI 344


RESULT 15
US-08-426-509A-15
; Sequence 15, Application US/08426509A
; Patent No. 6326469
;  GENERAL INFORMATION:
;    APPLICANT:  Ullrich,, Axel
;    APPLICANT:  Gishizsky,, Mikhail
;    APPLICANT:  Sures,, Irman G.
;    TITLE OF INVENTION:  NOVEL MEGAKARYOCYTIC PROTEIN
;    TITLE OF INVENTION:  TYROSINE KINASES
;    NUMBER OF SEQUENCES:  21
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York,
;      STATE:  NY
;      COUNTRY:  USA
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/426,509A
;      FILING DATE:  21-APR-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/232,545
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  7683-0074-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-790-9090
;      TELEFAX:  212-869-9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  15:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  529 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  No. 6326469e
US-08-426-509A-15
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  Query Match           23.5%;  Score 316.5;  DB 4;  Length 529;
  Best Local Similarity  36.2%;  Pred. No. 8.8e-26;
  Matches   76;  Conservative   35;  Mismatches   80;  Indels   19;  Gaps    4;

Qy       4 PSRRKSLPSPSLSS-------SVQGQGPVTMEAERSKATA-------VALGSFPAGGPAE 49
           |   |: |: | :         | |   |  :::   :  :       :||  : |    :
Db      36 PDPTKARPASSFAHIPNYSNFSSQAINPGFLDSGTIRGVSGIGVTLFIALYDYEARTEDD 95

Qy      50 LSLRLGEPLTIVSE-DGDWWTVLSEVSGREYNIPSVHVAKV----SHGWLYEGLSREKAE 104
           |:   ||   |::  :||||   |   ||:   ||| :|| |    :  | :  : |: ||
Db      96 LTFTKGEKFHILNNTEGDWWEARSLSSGKTGCIPSNYVAPVDSIQAEEWYFGKIGRKDAE 155

Qy     105 ELLLLPGNPGGAFLIRESQTRRGSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLT 164
             || |||| |||||||||:| :|:||||:|       | ::||:|  || |  ||: |:
Db     156 RQLLSPGNPQGAFLIRESETTKGAYSLSIRDWDQTRGDHVKHYKIRKLDMGGYYITTRVQ 215

Qy     165 FPSLQALVDHYSELADDICCLLKEPCVLQR 194
           | |:| || || |: | :| ||  || : :
Db     216 FNSVQELVQHYMEVNDGLCNLLIAPCTIMK 245


Search completed: March 24, 2003, 15:52:34
Job time : 21.1212 secs
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